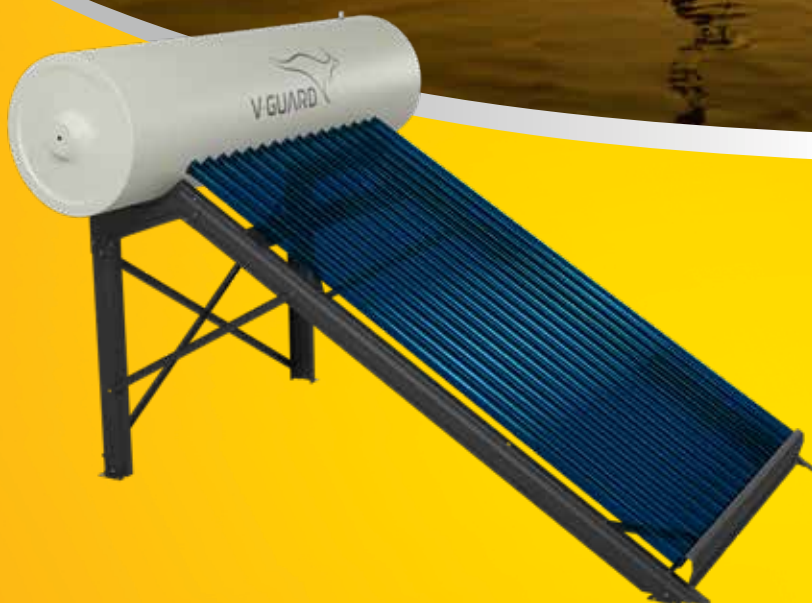




HARNESSING NATURE FOR A BETTER TOMORROW



SOLAR WATER HEATER TRU-HOT ZA PRO

BUILT TO LAST IN ALL WATER CONDITIONS



TITANIUM INFUSED
GLASS LINED TANK



SUITABLE FOR ALL
KIND OF WATER



CORROSION
RESISTANT



EASY-TO-CLEAN
TANK



SACRIFICIAL ANODE EXTENDS
LIFE OF THE TANK



DURABLE

*Conditions Apply

TRU-HOT ZA PRO SOLAR WATER HEATERS

Step into a world where every shower is a symphony of luxury and environmental responsibility. V-Guard presents to you an ultimate solution to all your hot water needs, Tru-Hot ZA Pro; A superhero that pamperers not just you but the planet too! Meticulously crafted using state-of-the-art technology at the V-Guard facility, these solar water heaters work like magic, using the sunlight to warm the water, making every shower a delightful experience.

Tru-Hot ZA Pro is easy to maintain, and its durability guarantees countless indulgent showers. And here's the most exciting part, Tru-Hot ZA Pro isn't just an upgrade; it's a smart investment. You'll save over Rs.10,000* annually while reducing your carbon footprint. With every warm drop, you're contributing to a greener future without sacrificing modern comfort.

DEFYING CORROSION WITH TITANIUM INFUSED GLASS LINED COATING

Glass Lined coating is a reliable technology that allows tanks to function well in both soft and hard water environments which also increases the durability of the tank. Glass Lined coating is applied to the insides of a mild steel (MS) tank, and thus prevents contact of water with mild steel thereby offering better corrosion resistance than any other commercially viable technology currently available. The latest technology are used in the completely automatic, PLC-controlled Glass Lined coating processes. To produce high-quality products, the process is fully managed by an automatic Monorail cardanic type heavy duty conveyor. The material known as vitreous enamel powder is applied to the internal surface of a metal tank and fired at temperature between 800°C and 850°C. The molecular interaction causes the vitreous enamel powder to melt, flow, and finally harden into a smooth, long-lasting glass coating on a metal surface which is called as Glass lining, Glass-lined steel or Glass fused to steel coating.

WORKING PRINCIPLE OF NON PRESSURISED SOLAR WATER HEATER

Sunlight, incident on the Vacuum Tube, passes through the outer transparent glass tube and strikes the outer surface of the inner glass tube with selective coating (Cu/Al.N-SS/Al.N.). This glass tube, which acts like a black body, absorbs the radiation and gets heated up in the process. The presence of vacuum between the two tubes prevents heat loss to the surroundings. The heated inner tube transfers this heat to the water with which it is directly in contact. Hot water is lower in density and therefore has a tendency to rise up. Cool Water from the tank flows down to replace the hot water, facilitating circulation by thermosyphon. And through this process, the entire water in the storage tank heats up and gets ready for use. The storage tank is insulated with PUF which minimises the heat loss at night.

WORKING PRINCIPLE OF PRESSURISED SOLAR WATER HEATER

The non-toxic liquid inside the Copper heat pipe used in solar water heaters has a boiling point of only 25°C. So when the heat pipe is heated above 25°C, the liquid vapourises. The vapour rapidly rises to the top of the heat pipe transferring the heat to the cold water inside the tank. As heat is lost at the condenser top, the vapour condenses to form a liquid and returns to the bottom of the heat pipe to repeat the process. Each heat pipe is tested at 250°C. For this reason the copper heat pipe is relatively soft. Because of high temperature, the glass tube is given a three-layer coating. Given the strict quality control and high Copper purity, the life expectancy of the heat pipe is even longer than that of the solar tube.

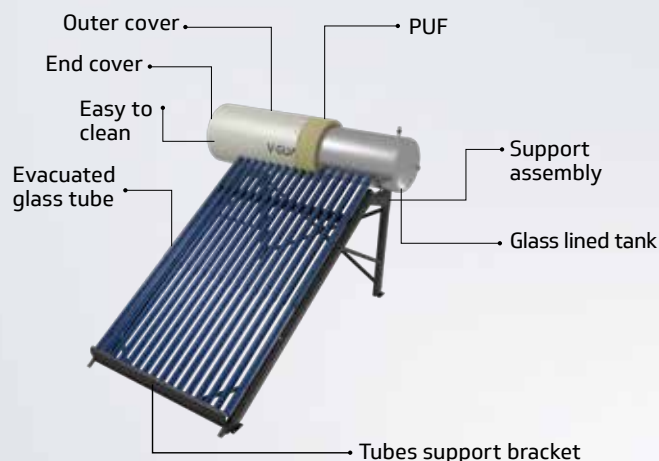
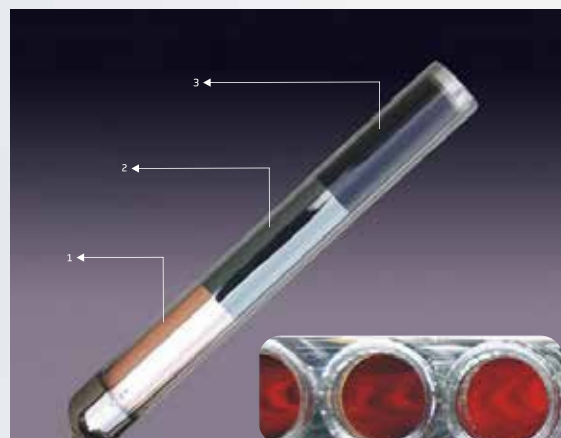
SALIENT FEATURES

- Suitable for all water conditions.
- Heavy duty magnesium anode rods extend life of the tank.
- Easy tank cleaning facilitated by the side-opening design.
- Suitable for high-rise buildings.
- Tru-Hot ZA Pro series SWH offers a 10-year warranty*.
- Maximum heat retention with high-density PUF insulation.
- Sturdy construction with powder-coated GI rolled section stand
- Evacuated tubes with triple-targeted coating for maximum heat absorption.

EVACUATED TUBES WITH TRIPLE TARGETED COATING FOR MAXIMUM HEAT ABSORPTION

Our Cu/Al.N-SS/Al.N. coated evacuated system is your hot water powerhouse, delivering abundant warmth even on cloudy days! The AlN outer layer enhances heat absorption, while the Cu inner layer ensures unmatched heat transfer. The SS coating in between, optimizes the transformative journey of sunlight into soothing warmth.

1. Bottom layer – Copper (Cu) – Absorption layer.
2. Middle Layer – Combination of Aluminium Nitride and SS (Al.N-SS) – Bonding cum absorption layer.
3. Top layer – Aluminium Nitride (Al.N) – Anti-reflection layer.



*Conditions Apply

NON PRESSURIZED SOLAR WATER HEATER														
Capacity	Utility points	Number of persons using hot water	Number of evacuated tube	Backup heater (optional)	Inner tank	Inlet/outlet pipe size of storage tank	Outer tank	Size of the evacuated tubes	Tank insulation	Weight of the tank without water	System height from the roof	Minimum required overhead tank height from the roof	Minimum space area required (NS X EW)	Working max pressure
100 LPD	2	2-3	8	2kW	GL	1.9 cm (3/4)	Zinc Alum	Ø5.8 x 210 cm	PUF	31 kg	1.51 m	1.9 m	2.4 x 1.2 m	0.4 kg/cm ²
150 LPD	3	4-5	12	2kW	GL	1.9 cm (3/4)	Zinc Alum	Ø5.8 x 210 cm	PUF	42 kg	1.51 m	1.9 m	2.4 x 1.6 m	0.4 kg/cm ²
200 LPD	4	5-6	16	2kW	GL	1.9 cm (3/4)	Zinc Alum	Ø5.8 x 210 cm	PUF	55 kg	1.51 m	1.9 m	2.4 x 2 m	0.4 kg/cm ²
250 LPD	4	6-7	20	2kW	GL	1.9 cm (3/4)	Zinc Alum	Ø5.8 x 210 cm	PUF	62 kg	1.51 m	1.9 m	2.4 x 2.3 m	0.4 kg/cm ²
300 LPD	5	8-9	24	2kW	GL	1.9 cm (3/4)	Zinc Alum	Ø5.8 x 210 cm	PUF	73 kg	1.51 m	1.9 m	2.4 x 2.9 m	0.4 kg/cm ²
500 LPD	8	14-15	31	3kW	GL	2.54 cm (1)	Zinc Alum	Ø7 x 210 cm	PUF	112 kg	1.6 m	2 m	2.6 x 3.3 m	0.4 kg/cm ²

PRESSURIZED SOLAR WATER HEATER														
Capacity	Utility points	Number of persons using hot water	Number of evacuated tube	Backup heater (optional)	Inner tank	Inlet/outlet pipe size of storage tank	Outer tank	Size of the evacuated tubes	Tank insulation	Weight of the tank without water	System height from the roof	Minimum required overhead tank height from the roof	Minimum space area required (NS X EW)	Max withstanding pressure
100 LPD	2	2-3	10	2kW	GL	1.9 cm (3/4)	Pre-coated GI	Ø5.8 x 180 cm	PUF	31 kg	1.6 m	1.9 m	2.4 x 1.2 m	8 kg/cm ²
150 LPD	3	4-5	15	2kW	GL	1.9 cm (3/4)	Pre-coated GI	Ø5.8 x 180 cm	PUF	42 kg	1.6 m	1.9 m	2.4 x 1.6 m	8 kg/cm ²
200 LPD	4	5-6	20	2kW	GL	1.9 cm (3/4)	Pre-coated GI	Ø5.8 x 180 cm	PUF	55 kg	1.6 m	1.9 m	2.4 x 2 m	8 kg/cm ²
300 LPD	5	8-9	29	2kW	GL	1.9 cm (3/4)	Pre-coated GI	Ø5.8 x 180 cm	PUF	80 kg	1.6 m	1.9 m	2.4 x 2.9 m	8 kg/cm ²

SUPERIORITY OF TITANIUM INFUSED GLASS LINED TANK VERSUS SS TANK & GI TANK

PARAMETER	TANK		
	SS	GI	GLASS LINED
Water suitability	Only soft water	Only hard water	All kind of water
Corrosion resistance	Medium	Medium	High
Life of the coating	NA	Medium	High
Global acceptance	Limited. In very few countries	Limited. In very few countries	Widely used internationally
Hot water resistant	Good	Average	Excellent

ANNUAL SAVINGS ON ELECTRICITY BILLS (SAMPLE CHART)	
Electricity consumed for heating 100 L of water with electric water heater	4.65 electrical unit/day
4.65 X 300(sunshine days)	1395 electrical unit
1395 x 7.5(rate/unit)**	Rs. 10462/-

No. of units saved will depend on the stage.
 **Electricity tariff is calculated as per the charges in the state of kerala, for the consumption of 501-600 units.
 Note: Only 300 days of a year have considered. Rest of the days are assumed to be cloudy and overcast.

Due to the continuous development & product improvement, the company reserves the right to change the specification without any prior notice.

APPLICATIONS

- Houses and Bungalows
- Hotels/Hospital/Restaurants
- Resorts / Apartments
- Poultry Farms
- Textile Mills & Drying Units/Industries
- Pool Heating



V-Guard Industries Ltd. ,

Registered Office: 42/962, Vennala High School Road, Vennala, Kochi - 682 028, Kerala.

Ph: 0484-2005000, 4335000 email: customercare@vguard.in | www.vguard.in



V-Guard Care
0120-4850100
1860 180 3000
customercare@vguard.in
© 9633503333

www.vguard.in/home/customer-care
CIN: L31200KL1996PLC010010

